

Our investigation (Grade 7 example)

EXAMPLE DATA, invented for this chart. The conclusion describes only these data.

Our question	What we changed	What we kept the same	What we measured
How does light affect bean seedlings?	Light: a sunny windowsill or a closed cupboard.	Bean variety, soil, pot size, water, room temperature, 10 days.	Stem height, leaf color, open leaves (day 10).

Example data (4 plants per group; height and open leaves are averages)	Stem height	Leaf color	Open leaves
Light group	9 cm	green	4
Dark group	14 cm	pale yellow	1

Claim, Evidence, Reasoning (Grade 7 example)

Example data only: 4 plants per group.

Claim	Evidence	Reasoning
In our example, the seedlings in the dark grew taller, but they were pale and had fewer open leaves than the seedlings in light.	Dark group: 14 cm, pale yellow, 1 open leaf. Light group: 9 cm, green, 4 open leaves.	Height alone did not tell us which group grew better here: only the light group had green, open leaves. Limit: 4 plants per group. Next: repeat with more plants.

Example of a finished class chart. Student ideas and data are invented for illustration; build your own chart with your class. Free to use and adapt.